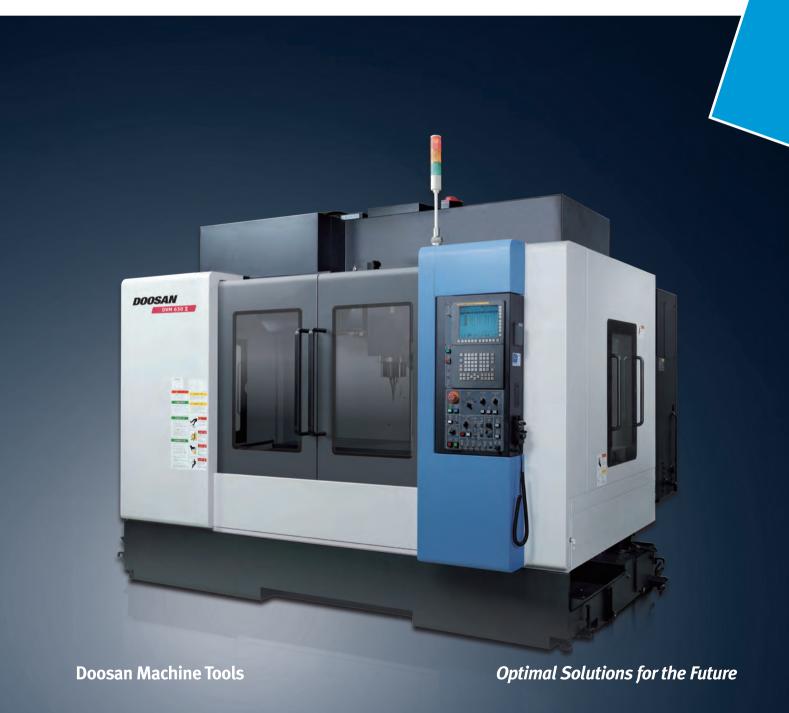


DVM I series DVM 500 I / DVM 650 I

High Precision Die & Mold Vertical Machining Center



DVM 500 II / DVM 650 II

The DVM II series seeks to make the spindle harder and last longer than the preceding DVM II series by opting for a static pressure spindle. The door width has been expanded to 2-door to make product installation more convenient. Furthermore, the quality of machining has been improved by standardizing the nut cooling ball screws of each spindle and the heat-shielding insulation in the columns in order to minimize heat displacement.



Greater strength and Upgrade longer service life of spindle

Uses a static pressure spindle to maintain strength in the lowspeed section and increase service life in the high-speed section



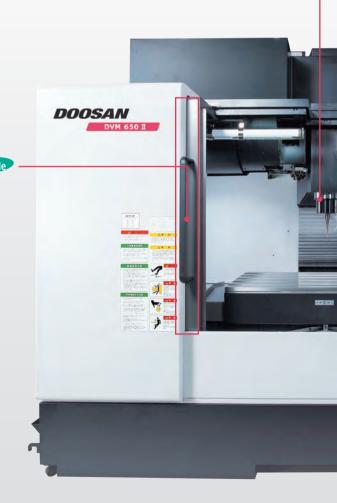
Increased convenience Upgrade

Increases width of door by shifting to 2-door, making installation of product more convenient



Increases capacity of lubricating unit to reduce frequency of replacing lubricant

Previous model DVM 500 II / 650 II 4.3L 2.0 L



High Precision Die & Mold Vertical Machining Center

Developed to provide high precision and high performance for die & mold machining



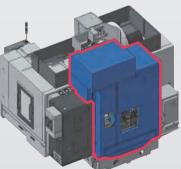


Improvement of machining quality Upgrade



Using nut cooling ball screws on every spindle (X, Y, and Z) reduces heat displacement by up to 47% compared with previous models

Applying heat-shielding insulation minimizes thermal deformation of structure



Die & Mold Machining Solution

The DVM II Series performs precision machining due to the high level of rigidity built into the machine structure at the design stage. In addition, special functions such as spindle thermal displacement compensation, high speed / precision contour control and optimised federate control contribute to the highest level of workpiece accuracy and quality.

DVM 500 II / DVM 650 II

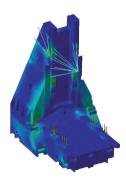
Die & Mold solution

Spindle power-torque diagram



High Rigidity Design

To minimize the bearing and motor heat a high-precision oil cooler controls the temperature to 0.1 degree.



Static rigidity

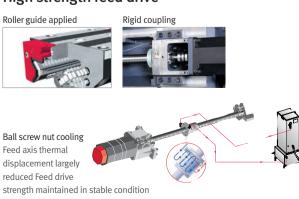
The high rigidity structure of DVM II has raised the static rigidity up by 30% more than previous model with no weak point through FEM* analysis.

* FEM: Finite Element Method

Dynamic rigidity

Improving the frequency response and the damping ability of vibration makes it possible to increase the eigenfrequency 35% up on the previous model.

High strength feed drive





High Speed / Precision Contour Control



* DSQ: Doosan Super Quality

Smoothes the movement of the machine, improving surface roughness and profile accuracy of corners and edges.

- DSQ1 (Look ahead 200 block + Machining condition selection function) 500

• DSQ2 (DSQ1 + Data server [1GB]) opp



• DSQ3 (DSQ2 + High Speed Processing) opt

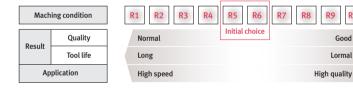




Verification sample VASE



Machining condition selection function



It is possible to change machining condition in 10 steps by using R code at the program.

- Improving productivity (high speed at rough machining, high precision at finish cutting)

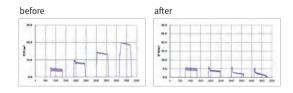
NC parameter such as maximum feed and deceleration time can be set automatically

Thermal Displacement Compensation

Thermal displacement of the spindle is minimized, so processing accuracy can be maintained for even long periods of use. Automatic tool measurement device and High-performance oil-cooler as standard.

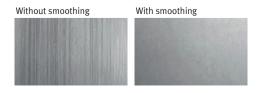
Spindle static displacement compensation

To compensation displacement of tool by by thermal deformation of spindle at high RPM.



Thermal displacement compensation

Thermal displacement compensation is achieved with 5 algorithm including smoothing function.



Built-in Spindle

High speed spindle achieves stable accuracy and high precision machining even during long periods of operation.

This optimises productivity and workpiece accuracy.

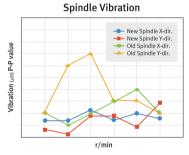
DVM 500 II / DVM 650 II

High-Quality Spindle with Low Heat Generation, Low Vibration and High Rigidity

Spindle vabration is minimized by shortening its length and optimization bearing pre-tension

Spindle length

 Improving productivity (high speed at rough machining, high precision at finish machining)

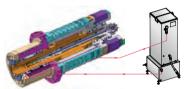


Low vibration spindle

- High precision balance and short spindle length by 40% than the previous model

0.1 degree spindle head cooling system

To minimize the bearing and motor heat a high-precision oil cooler controls the temperature to 0.1 degree.



Oil air lubrication

A optimal amount lubrication oil is applied by high pressure air to the bearings.

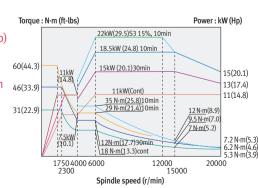




Spindle Power - Torque Diagram

High speed / precision built-in spindle





2-Face locking tool system

BT40 tool & 2-Face locking tool system(BIG PLUS) applied as standard



Automatic tool measurement

Automatic tool measurement (TS27R)



Air blower

Dry cutting and MQL easy applied.





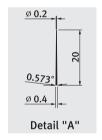
High Precision

High precision spindle run-out and highly rigid axis traverse system

ø 0.2 mm micro feed needle machining

Needle machining is achieved by minimum spindle run-out and low vibration micro feed using a highly rigid axis traverse system.





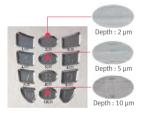
High precision micro feed / surface roughness

Work Sample

Variation of offset value of workpiece height is less than

0.5µm (actual result)





High Productivity

The comparison of cycle time (actual result)

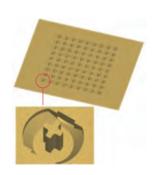
A competitor's machine

44hr 30min



DVM 500 II

34hr 30min



VASE (Verification sample) cycle time

A competitor's machine

22min 44s



DVM 500 II

21min 32s

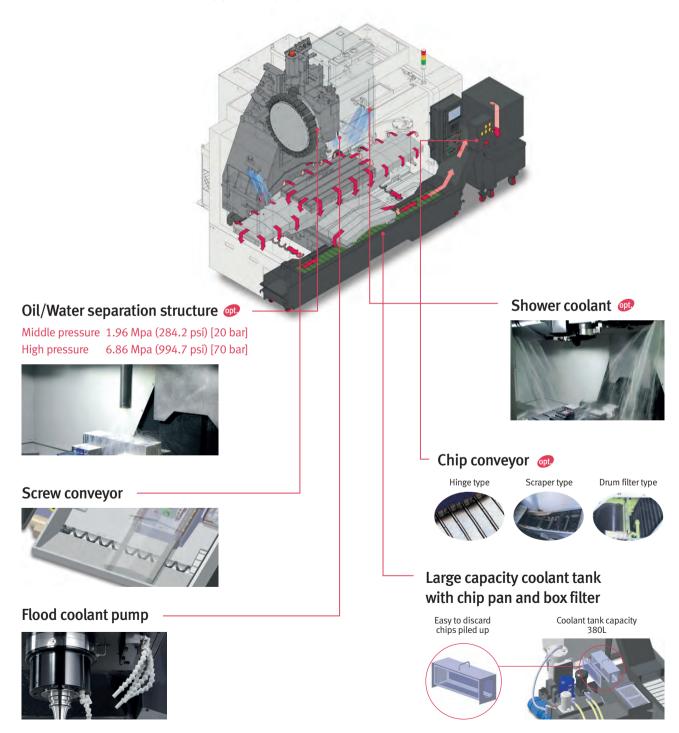


Chip Disposal

Managment of chips from the viewpoint of productivity improvement and environmental countermeasure is important. DVM II series offer a variety of chip control equipment to provide enhanced accuracy and better chip removal capabilities.

Easy chip disposal structure

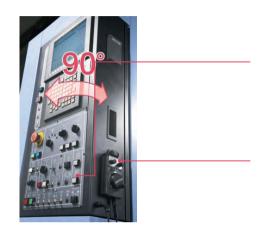
The completely enclosed DVM II series guarantee the confinement of chips and coolant to the inside of the machining area. Chips fall into the removable forward mounted chip pan for easy disposal.



Improved Maintainability

Maintainability is one of the crucial criteria that Doosan placed at the forefront of machine development. Large openings in the machine paneling facilitate access to the underlying maintenance units like lubricant oil tank and pneumatic fittings.

Operating console



- 1. Swivelling Operating Console An easy-to-use operation panel which can swivel from 0-90°
- 2. ATC operating button is arranged to Main Panel



This can give much easier operation and maintenance for ATC.

3. Portable MPG



Portable MPG makes a workpiece setting easier for the operator.

2-Door

Top cover can be opened to provide easy access for loading heavy workpieces to the center of the table.



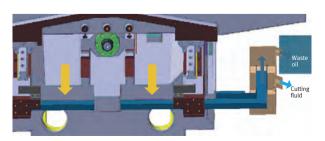
Brighter working area

Fluorescent lamps for safety and clear view of the working area.



Seperates cutting fluid from wasted oil in coolant tank

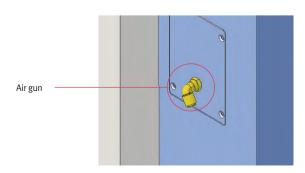
It prolongs the use of cutting fluid and also enhances productivity. As an optional feature, oil skimmer can be attached for better efficiency.



Air port 400

Air port is provided as a standard feature. (Air gun: op.)





Easy operation package

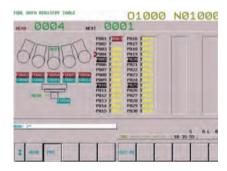
These Doosan software packages have been customised to provide fast and easy operation for tooling, workpiece and program set up. These features minimise the lost time caused by process setup and maximises the machine productivity.





Fanuc 31i 10.4" color TFT LCD Part Program Storage 640m Ethernet Function (Embedded)

Programming



Tool data registry table

Operator can edit & check the tool number of magazine pot.



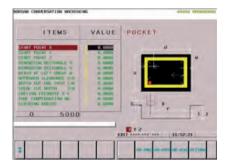
G Code list

Operator can check the meaning of each G-code.



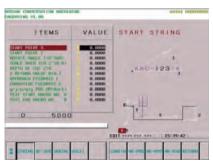
M Code list

Operator can check the meaning of each M-code.



Pattern cycle

It is easy to make pattern cycle program by this funciton.



It makes number and letter engraving programming easier.



Calculator

Operator can easily calculate numerical formulas in relation to arc and hole patterns.

Operation / Maintenance

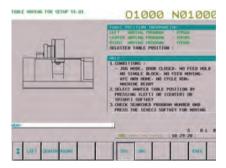


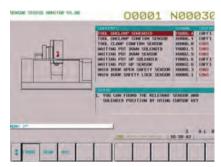
Table moving for setup

It is easy to move the table to 3 positions along the X-axis.



ATC recovery help

It makes operator recovery of the ATC from alarm status easier.



Sensor status monitor

Solenoid valve and Sensor status can be checked without the electric diagram.



Easy NC parameter help

Operator can check some useful parameters for easy operation.



Operation rate

Working and operation time by each operator can be managed.



Tool load monitor of

The axis and spindle load in cutting are monitored which minimises damage to the tool.



Alarm guidance

Recovery method for important alarms is displayed on the screen.



RENISHAW GUI (Tool measure 👊)

(Work measure on)

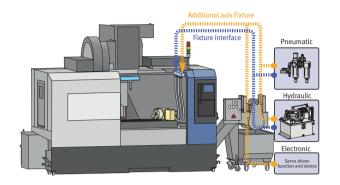
Tool & work measure system of Renishaw is operated on conversational screen.

Optional Equipment

Improves machine productivity.

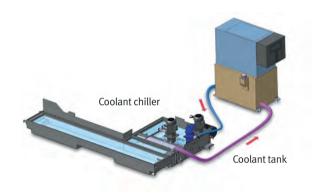
Interface for additional equipment

- Recommended Rotary Table : ø 250 (DVM 500 II), ø 320 (DVM 650 II)
 - Connection example of additional 4 axis interface
 - Connection example of fixture interface



Coolant chiller on

The coolant chiller lowers coolant temperature, helping to cool both the workpiece and tool during the machining operation.



Through spindle coolant



Automatic front door



MQL (Minimum quantity lublication)



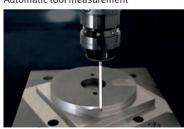
Oil skimmer



Coolant gun



Automatic tool measurement



Additional axis interface



Rear chip conveyor



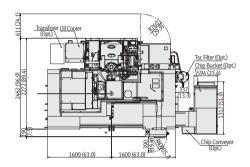
Automatic tool breakage detection



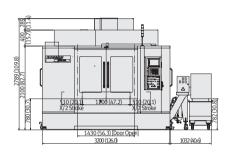
External Dimensions & Table Dimensions

DVM 500 II

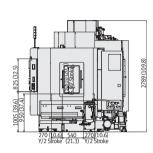
Top view



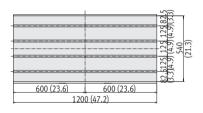
Front view



Side view



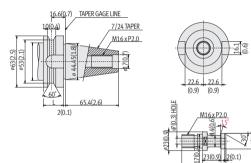
Table



18Hs (0.7)

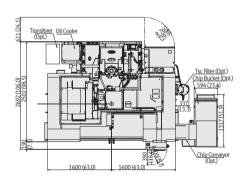
T-slot section

Tool shank (MAS 403 BT 40)

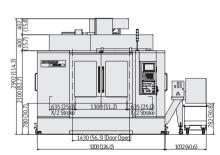


DVM 650 II

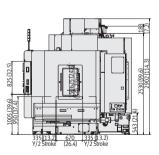
Top view



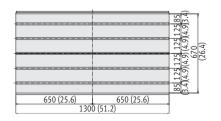
Front view



Side view



Table





Machine Specifications

	Description	Unit	DVM 500 II	DVM 650 II	
Travels	X-axis	mm (inch)	1020 (40.2)	1270 (50.0)	
	Y-axis	mm (inch)	540 (21.3)	670 (26.4)	
	Z-axis	mm (inch)	510 (20.1)	625 (24.6)	
	Distance from spindle nose to table top	mm (inch)	150 - 660 (5.9 - 26.0)	150 - 775 (5.9 - 30.5)	
Feedrate	Rapid traverse rate (X / Y / Z)	m/min (ipm)	30 / 30 / 30 (1181.1 / 1181.1 / 1181.1)		
	Cutting feedrate	mm/min (ipm)	1~15000 (1~590.6)	1~24000	
Table	Table size	mm (inch)	1200 x 540 (47.2 x 21.3)	1300 x 670 (51.2 x 26.4)	
	Table loading capacity	kg (lb)	800 (1763.7)	1000 (2204.6)	
Spindle	Max. spindle speed	r/min	20000		
	Spindle taper		ISO #40, 7/24 Taper		
	Max. Spindle torque	N∙m (ft-lbs)	60 (4	60 (44.3)	
Automatic Tool Changer	Type of tool shank		MAS403 BT40		
	Tool storage capacity	ea	30 {40}		
	Max. tool diameter	mm (inch)	80 / 125 {76 / 125} (3.2 / 4.9 {3.0 / 4.9})		
	Max. tool length	mm (inch)	300 (11.8)		
	Max. tool weight	kg (lb)	8 (17.6)		
	Method of tool selection		Memory random		
	Tool change time (tool-to-tool)	S	1.3		
	Tool change time (chip-to-chip)	S	3.7		
Motors	Spindle motor (30 min.)	kW (Hp)	11 / 15 / 22 (14.8 / 20.1 / 29.5)		
Power Source	Electric power supply (Rated Capacity)	kVA	44.6		
Tank Capacity	Coolant tank capacity	L (gal)	380 (100.4)		
	Lubrication tank capacity	L (gal)	4.3 (1.1)		
	Height	mm (inch)	2789 (109.8)	2905 (114.4)	
Machine Dimensions	Length X Width	mm (inch)	2462 x 3350 (96.9 x 131.9)	2692 x 3350 (106.0 x 131.9)	
Difficilisions	Weight	kg (lb)	6500 (14329.8)	8500 (18739.0)	
NC System	CNC Unit		Fanu	Fanuc 31i	

{}: Option

Standard feature

- Assembly & operation tools
- Air blower
- Automatic power off
- Automatic tool measurement (TS27R)
- Coolant tank & chip pan
- DSQ1

(look ahead 200 block + machining condition selection function)

- Portable MPG
- Screw conveyor
- Signal tower (red, yellow, green)
- Spindle head cooling system
- Splash guard

Optional feature

- 4th / 5th axis preparation
- Air dryer
- Chip conveyor & chip bucket
- Coolant Chiller
- DSQ2 (DSQ1 + Data server [1GB])
- DSQ3 (DSQ2 + High Speed Processing)
- Mist collector
- Test bar
- Through spindle coolant
- The specifications and information above-mentioned may be changed without prior notice.
- \bullet For more details, please contact Doosan

NC Unit Specifications

Fanuc 31i

XES CONTROL Controlled axes	3 (X,Y,Z)	- Part program storage	640 m
Simultaneously controllable axes		- Program number	04-digits
Positionii	ng(G00)/Linear interpolation(G01): 3 axes	- Program protect	
	Circular interpolation(G02, G03): 2 axes	- Program stop / end	M00 / M02,M30
Backlash compensation		- Programmable data input	
Emergency stop / overtravelnsation Follow up		- Sub program	Tool offset and work offset are entered by G10, G11 Up to 4 nesting
east command increment :	0.001mm / 0.0001"	- Tape code	ISO / EIA Automatic discrimination
east input increment :	0.001mm / 0.0001"	- Work coordinate system	G54 - G59
Nachine lock	all axes / Z axis	- Additional work coordinate system(48 Pair)	G54.1 P1 - 48 pairs
Mirror image		- Coordinate system rotation	G68, G69
Reverse axis m	novement (setting screen and M - function)	- Extended part program editing	000, 00,
Stored pitch error compensation		- Optional angle chamfering / corner R	
Pi tored stroke check 1	tch error offset compensation for each axis Overtravel controlled by software	- Macro executor	
	Overtiavel contiolled by software	OTHERS FUNCTIONS (Operation, Setting & Display,	etc)
TERPOLATION & FEED FUNCTION	620	- Alarm display	
2nd reference point return Circular interpolation	G30 G02, G03	- Alarm history display	
Dwell	G02, G03 G04	- Clock function	
xact stop check	G09, G61(mode)	- Cycle start / Feed hold	
eed per minute	mm / min	- Display of PMC alarm message	
eedrate override (10% increments)	0 - 200 %		Message display when PMC alarm occurred
og override (10% increments)	0 - 200 %	- Dry run	
near interpolation	G01	- Ethernet function(Embeded)	
lanual handle feed 1 unit		- Graphic display	Tool path drawing
anual handle feed 2/3 unit		- Help function	
anual handle feed 275 unit	0.1/0.01/0.001mm	- Loadmeter display	
verride cancel	M48 / M49	- MDI / DISPLAY unit	
ositioning	G00		0.4" Color TFT LCD, Keyboard for data input, soft-key
apid traverse override	F0 (fine feed), 25 / 50 / 100 %	- Memory card interface	- 1 1
eference point return	G27, G28, G29	- Operation functions	Tape / Memory / MDI / Manua
kip function	G31	- Operation history display	
elical interpolation		- Program restart	
SQ1(AICC II + Machine condition selection function)		- Run hour and part number display	
,	200 block preview	- Search function	Sequence NO. / Program NO
read cutting, synchronous cutting		- Self - diagnostic function	
rogram restart		- Servo setting screen	
utomatic corner deceleration (Specify Al Contour control II)		- Single block	
eedrate clamp by circular acceleration		- External data input	
inear ACC/DEC before interpolation (Specify AI Contour con	ntrol II)	- Multi language display	
Linear ACC/DEC after interpolation			
Control axis detach		OPTIONAL SPECIFICATIONS	
Rapid traverse bell-shaped acceleration/deceleration		- 3-dimensional coordinate conversion	
Smooth backlash compensation		- 3-dimensional tool compensation	10.4" Color LCD
		- 3rd / 4th reference return	
PINDLE & M-CODE FUNCTION		- Addition of tool pairs for tool life management	1024 pairs
Λ- code function	M 3 digits	- Additional controlled axes	max. 6 axes in tota
pindle orientation		- Additional work coordinate system	
pindle serial output			G54.1 P1 - 300 (300 pairs)
pindle speed command	S5 digits	- DSQ 2	200 block preview (AICC II + Machine condition
pindle speed override (10% increments)	50 - 150 %	0000	selection function + Data server + 1GB)
pindle output switching		-DSQ 3	600 block preview
etraction for rigid tapping		(AICC II with High speed processing + Machine cond	lition selection
gid tapping	G84, G74	function + Data server + 1GB)	
		- Automatic corner override	G6.
D FUNCTION		- Chopping function	G81.
ol nose radius compensation	G40, G41, G42	- Cylindrical interpolation	G07.
umber of tool offsets	64 ea	- Dynamic graphic displayMachining profile drawing	5
ol length compensation	G43, G44, G49	- Exponential interpolation	
ool number command	T2 digits	- Interpolation type pitch error compensation	
ool life management		- EZ Guide i (Doosan infracore Conversational Progr	
	/ Wear and Length / Radius offset memory		with 10.4" Color TFT LCI
ol offset memory C		- Increment system 1/10	
all an other as a suppose of		- Figure copying	G72.1, G72.
ot length measurement			-7-1-7-1
-		- High speed skip function	
OGRAMMING & EDITING FUNCTION		- High speed skip function - Involute interpolation	G02.2, G03.2
OGRAMMING & EDITING FUNCTION bsolute / Incremental programming	G90 / G91	High speed skip function Involute interpolation Machining time stamp function	G02.2, G03.2
OGRAMMING & EDITING FUNCTION soclute / Incremental programming uto. Coordinate system setting	G90 / G91	High speed skip function Involute interpolation Machining time stamp function No. of Registered programs	G02.2, G03.
OGRAMMING & EDITING FUNCTION posolute / Incremental programming uto. Coordinate system setting ackground editing	·	High speed skip function Involute interpolation Machining time stamp function	G02.2, G03. 1000 e
OGRAMMING & EDITING FUNCTION posolute / Incremental programming uto. Coordinate system setting ackground editing anned cycle	G90 / G91 G73, G74, G76, G80 - G89, G99	- High speed skip function - Involute interpolation - Machining time stamp function - No. of Registered programs - Number of tool offsets	G02.2, G03. 1000 e 99 / 200 / 400 / 499 / 999 / 2000 e
OGRAMMING & EDITING FUNCTION solute / Incremental programming uto. Coordinate system setting ackground editing anned cycle rcular interpolation by radius programming	·	High speed skip function Involute interpolation Machining time stamp function No. of Registered programs Number of tool offsets Optional block skip addition	G02.2, G03. 1000 e 99 / 200 / 400 / 499 / 999 / 2000 e 9 block
OGRAMMING & EDITING FUNCTION bsolute / Incremental programming uto. Coordinate system setting ackground editing anned cycle ircular interpolation by radius programming ustom macro B	·	- High speed skip function - Involute interpolation - Machining time stamp function - No. of Registered programs - Number of tool offsets	G02.2, G03. 1000 e 99 / 200 / 400 / 499 / 999 / 2000 e 9 block
DORAMMING & EDITING FUNCTION DOSOLUTE / Incremental programming uto. Coordinate system setting ackground editing anned cycle rcular interpolation by radius programming ustom macro B ustom size 512Kb	·	High speed skip function Involute interpolation Machining time stamp function No. of Registered programs Number of tool offsets Optional block skip addition	G02.2, G03. 1000 e 99 / 200 / 400 / 499 / 999 / 2000 e 9 block
OGRAMMING & EDITING FUNCTION DOSOLUTE / Incremental programming uto. Coordinate system setting ackground editing anned cycle rcular interpolation by radius programming ustom macro B ustom size 512Kb ecimal point input	G73, G74, G76, G80 - G89, G99	- High speed skip function - Involute interpolation - Machining time stamp function - No. of Registered programs - Number of tool offsets - Optional block skip addition - Part program storage	602.2, G03. 1000 e 99 / 200 / 400 / 499 / 999 / 2000 e 9 block 1280 / 2560 t
OGRAMMING & EDITING FUNCTION osolute / Incremental programming uto. Coordinate system setting ackground editing anned cycle rcular interpolation by radius programming ustom macro B ustom size 512Kb ecimal point input O interface	G73, G74, G76, G80 - G89, G99 RS - 232C	- High speed skip function - Involute interpolation - Machining time stamp function - No. of Registered programs - Number of tool offsets - Optional block skip addition - Part program storage - Playback function	602.2, G03. 1000 e 99 / 200 / 400 / 499 / 999 / 2000 e 9 block 1280 / 2560 r G15 / G1
OGRAMMING & EDITING FUNCTION bsolute / Incremental programming uto. Coordinate system setting ackground editing anned cycle ircular interpolation by radius programming ustom macro B ustom size 512Kb tecimal point input / O interface tch / metric conversion	G73, G74, G76, G80 - G89, G99	- High speed skip function - Involute interpolation - Machining time stamp function - No. of Registered programs - Number of tool offsets - Optional block skip addition - Part program storage - Playback function - Polar coordinate command	602.2, 603.: 1000 e 99 / 200 / 400 / 499 / 999 / 2000 e 9 block 1280 / 2560 n G15 / G1
OGRAMMING & EDITING FUNCTION bsolute / Incremental programming uto. Coordinate system setting ackground editing anned cycle ircular interpolation by radius programming ustom macro B ustom size 512Kb ecimal point input / O interface ch / metric conversion	G73, G74, G76, G80 · G89, G99 RS - 232C G20 / G21	- High speed skip function - Involute interpolation - Machining time stamp function - No. of Registered programs - Number of tool offsets - Optional block skip addition - Part program storage - Playback function - Polar coordinate command - Polar coordinate interpolation	602.2, 603. 1000 e 99 / 200 / 400 / 499 / 999 / 2000 e 9 block 1280 / 2560 n G15 / G1 G12.1 / G13. G50.1 / G51.
OGRAMMING & EDITING FUNCTION bsolute / Incremental programming uto. Coordinate system setting lackground editing anned cycle ircular interpolation by radius programming ustom macro B ustom size 512Kb lecimal point input / O interface hch / metric conversion abel skip bocal / Machine coordinate system	RS - 232C G20 / G21	- High speed skip function - Involute interpolation - Machining time stamp function - No. of Registered programs - Number of tool offsets - Optional block skip addition - Part program storage - Playback function - Polar coordinate command - Polar coordinate interpolation - Programmable mirror image	G02.2, G03.: 1000 ex 99 / 200 / 400 / 499 / 999 / 2000 ex 9 block 1280 / 2560 n G15 / G1c G12.1 / G13.: G50.1 / G51.:
OGRAMMING & EDITING FUNCTION bsolute / Incremental programming uto. Coordinate system setting anckground editing anned cycle ircular interpolation by radius programming ustom macro B ustom size 512Kb tecimal point input / O interface nch / metric conversion abel skip ocal / Machine coordinate system laximum commandable value	G73, G74, G76, G80 · G89, G99 RS - 232C G20 / G21	- High speed skip function - Involute interpolation - Machining time stamp function - No. of Registered programs - Number of tool offsets - Optional block skip addition - Part program storage - Playback function - Polar coordinate command - Polar coordinate interpolation - Programmable mirror image - Single direction positioning	602.2, 603. 1000 e 99 / 200 / 400 / 499 / 999 / 2000 e 9 block 1280 / 2560 n G15 / G1 G12.1 / G13. G50.1 / G51.
ROGRAMMING & EDITING FUNCTION absolute / Incremental programming uuto. Coordinate system setting sackground editing anned cycle iricular interpolation by radius programming uistom macro B sustom size 512Kb becimal point input / O interface nch / metric conversion abel skip ocal / Machine coordinate system Aaximum commandable value lo. of Registered programs	RS - 232C G20 / G21	- High speed skip function - Involute interpolation - Machining time stamp function - No. of Registered programs - Number of tool offsets - Optional block skip addition - Part program storage - Playback function - Polar coordinate command - Polar coordinate interpolation - Programmable mirror image - Single direction positioning - Stored stroke check 2 / 3	
Tool length measurement ROGRAMMING & EDITING FUNCTION Absolute / Incremental programming Auto. Coordinate system setting Background editing Canned cycle Circular interpolation by radius programming Custom macro B Custom macro B Custom size 512Kb Decimal point input 1/ O interface Inch / metric conversion Label skip Local / Machine coordinate system Maximum commandable value No. of Registered programs Optional stop	G73, G74, G76, G80 - G89, G99 RS - 232C G20 / G21 G52 / G53 ±99999.9999mm (±9999.9999 inch)	- High speed skip function - Involute interpolation - Machining time stamp function - No. of Registered programs - Number of tool offsets - Optional block skip addition - Part program storage - Playback function - Polar coordinate command - Polar coordinate interpolation - Programmable mirror image - Single direction positioning - Stored stroke check 2 / 3 - Tool load monitoring function (doosan)	G02.2, G03 1000 e 99 / 200 / 400 / 499 / 999 / 2000 9 bloci 1280 / 2560 G15 / G1 G12.1 / G13 G50.1 / G51





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⁻ The specifications and information above-mentioned may be changed without prior notice.

- For more details, please contact Doosan.

